

Conaid J. Featherstone

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Ann E. Summerfield Tiera S. Coston* Aric W. Ledford* Registered Patent Agents Karen R. Markowicz Nancy J. Leith Helene C. Carlson Gaby L. Longsworth Matthew J. Dowd Aaron L. Schwartz Mary B. Tung Katrina Y. Pei Quach Bryan L. Skelton Robert A. Schwartzman

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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

September 30, 2003

WRITER'S DIRECT NUMBER: (202) 772-8520 INTERNET ADDRESS: TWOOD@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Mail Stop: Patent Application

Timothy A. Doyle Jennifer R. Mahalingappa

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No.: (To Be Assigned); Filed: Herewith

Methods and Systems to Compensate for a Stitching Disturbance of a For: Printed Pattern in a Maskless Lithography System Utilizing Overlap

Without an Explicit Attenuation

Inventors:

Azat LATYPOV et al.

Our Ref:

1857.2100000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- PTO Fee Transmittal (Form PTO/SB/17); 1.
- PTO Utility Patent Application Transmittal (Form PTO/SB/05); 2.
- U.S. Utility Patent Application entitled: 3.

Methods and Systems to Compensate for a Stitching Disturbance of a Printed Pattern in a Maskless Lithography System Utilizing Overlap Without an **Explicit Attenuation**

and naming as inventors:

Azat LATYPOV Karel VAN der MAST Commissioner for Patents September 30, 2003 Page 2

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. An original and facsimile copy of the executed Declaration;
- c. A specification containing:
 - i. 21 pages of description prior to the claims;
 - ii. <u>4</u> pages of claims (<u>15</u> claims <u>3</u> Independent);
 - iii. a one (1) page abstract;
- d. <u>13</u> sheets of drawings: (Figures <u>1-10, 10A, 11, 12</u>);
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. An original and facsimile copy of the executed Assignment to <u>ASML Holding, N.V.</u>, recordation of which is hereby respectfully requested;
- 7. Two (2) return postcards; and
- 8. Credit Card Payment Form PTO-2038 for \$790.00 to cover: \$750.00 Filing fee for patent application; and \$40.00 Assignment recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents September 30, 2003 Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Una Whe

Theodore A. Wood
Attorney for Applicants

Registration No. 52,374

Enclosures

::ODMA\MHODMA\SKGF_DC1;183293;1

Under the Paperwork Reduction Act of 1995, no person

FEE TRANSMITTAL for FY 2003

Spective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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(\$) 790.00

s are required to respond to a	collection of information unless it displays a valid OMB control number
	Complete if Known
Application Number	To Be Assigned
Filing Date	Herewith
First Named Inventor	Azat LATYPOV
Examiner Name	To Be Assigned
Art Unit	To B Assigned
Attorney Docket No.	1857 2100000

		tπorney	DOCKE	. 110.	1857.210000	00		
METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued)								
☐ Check ☒ Credit card ☐ Money Order ☒ Other** ☐ None	3. ADI	DITION	AL FEI	ES				
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Deposit Account Deposit Account Number 19-0036		Fee Fee (\$) Cod			Fee Description			ee raid
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1051	130	2051	65	Surcharge - late filing fee	e or oath		
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provision sheet	nal filing fee o	or cover	
☐ Charge fee(s) indicated below ☐ Credit any over payments	1053	130	1053	130	Non-English specificatio	n		
Charge any additional fee(s) during the pendency of this	1812	2,520	1812	2,520	For filing a request for e.	x parte reexa	amination	
application Charge fee(s) indicated below, except for the filing fee to the	1804	920*	1804	920*	Requesting publication of action	of SIR prior to	o Examiner	
above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of action	of SIR after E	Examiner	
	1251	110	2251	55	Extension for reply within	n first month		
	1252	410	2252	205	Extension for reply withi	n second mo	onth	
FEE CALCULATION	1253	930	2253	465	Extension for reply withi	n third month	י [
1. BASIC FILING FEE	1254	1,450	2254	725	Extension for reply within	in fourth mon	ith [
Large Entity Small Entity	1255	1,970	2255	985	Extension for reply within	in fifth month		
Fee Fee Fee Fee Fee Description Fee Paid	1401	320	2401	160	Notice of Appeal			
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee \$750.00	1402	320	2402	160	Filing a brief in support	of an appeal		
1001 750 2001 375 Utility filing fee \$\frac{\$750.00}{2002}\$ 1002 330 2002 165 Design filing fee	1403	280	2403	140	Request for oral hearing	9	ļ	
1003 520 2003 260 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a pu	blic use proc	eeding	
1004 750 2004 375 Reissue filing fee	1452	110	2452	55	Petition to revive - unav	oidable		
1105 160 2005 80 Provisional filing fee	1453	1,300	2453	650	Petition to revive - unint	tentional		
SUBTOTAL (1) (\$) 750.00	1501	1,300	2501	650	Utility issue fee (or reiss	sue)		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1502	470	2502	235	Design issue fee		i	
Fee from Extra below Fee Paid	1503	630	2503	315	Plant issue fee			
Total Claims 15 - 20** = 0 X \$18.00 = \$0.00	1460	130	1460	130	Petitions to the Commis	ssioner		
Indep. Claims 3 - 3** = 0 X \$84.00 = \$0.00 Multiple Dependent = =	1807	50	1807	50	Processing fee under 3	7 CFR 1.17(q)	
	1806	180	1806	180	Submission of Informat	ion Disclosu	re Stmt	·
Large Entity Small Entity Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)			\$40.00
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission after 1.129(a))			
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375		For each additional invention to be examined (37 CFR 1.129(b))		
1204 84 2204 42 **Reissue independent claims	1801	750	2801	375		(37 CFR 1.129(b)) Request for Continued Examination (RCE)		
over original patent	1802	2 900	1802	900	Request for expedited	examination	of a design	
1205 18 2205 9 **Reissue claims in excess of 20 and over original patent	1002	. 500	1		application		-	
SUBTOTAL (2) (\$) 0.00	Other	fee (spe	ecify) _					
** Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.						0.00		
SUBMITTED BY			- 1 1			Complete (if	applicable)	
Name (Print/Type) Theodore A Wood	Registration No. 52.274 Telephone 202-371-2600						1-2600	
Signature Clin a. Was						Date	Septembe	r 30, 2003

PTO/SB/05 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

		Attorney Docket No.			1857.2100000						
UTILITY PATENT APPLICATION TRANSMITTAL (only for new nonprovisional applications under 37 CFR 1.53(b))						Azat LATYPOV					
			First Inventor			AZAT LATYPOV					
			Title			Methods and Systems to Compensate for a Stitching Disturbance of a Printed Pattern in a Maskless Lithography System Utilizing Overlap Without an Explicit Attenuation					
			Express Mail Label No.								
		LICATION ELEME		ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450					Patents		
	(Submit an origi	ttal Form (e.g., PTO/SB/17) inal, and a duplicate for fee processims small entity status.		 CD-ROM or CD-R in duplicate, large table or Computer Pro (Appendix) Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: 							
3.	Specification	[Total Pages	26 1								
	- Descriptive title - Cross Reference - Statement Rega	red arrangement set forth below) iptive title of the Invention Reference to Related Applications nent Regarding Fed sponsored R & D		i. CD-ROM or CD-R (2 copies); orii. paper							
		- Reference to sequence listing, a table, or a computer program listing appendix			c. 🔲	Statements	nts verifying identity of above copies				
- Background of the Invention - Brief Summary of the Invention						ACCOMPANYING APPLICATION PARTS					
	Brief Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure			9.	⊠		t Papers (cover she				
4.		35 U.S.C. 113) [Total Shee	ets_13]	10.		37 CFR 3.7 (when there	73(b) Statement is an assignee)	(Power of Attorney		
5.	Oath or Declaration	[s 4 1	11.		English Tra	anslation Documen	nt <i>(ij</i>	applicable)		
a. Newly executed (facsimile copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. (See 37 CFR 1.76).			12.			n Disclosure (IDS)/PTO-1449	[Copies of IDS Citations			
			13.		Preliminary	ary Amendment					
			14.	Two (2) Return Receipt Postcards (MPEP 503) (Should be specifically itemized)							
			15.	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)							
			16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attace form PTO/SB/35 or its equivalent.								
				17.	\boxtimes	Other: A	uthorization Unde	er 37	C.F.R. § 1.136(a)(3)		
					\boxtimes	Other: T	he name of the ass	sign	ee is: ASML Holding, N.V.		
18	Data Sheet under 37	CFR 1.76:			equisit	e information	n below and in a pr	elin	inary amendment, or in an Application		
	Continuation Prior application in		Continuation-in-Part (CI	P)	of p	rior applicati A	ion No:/ rt Unit:		<u></u>		
co	nsidered a part of the di	R DIVISIONAL APPS only: sclosure of the accompanying n has been inadvertently omit	g continuation or division	al app	licatio	n and is here	m which an oath o by incorporated by	or de y rei	eclaration is supplied under Box 5b, is ference. The incorporation can only be		
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	Customer Number	26111					or Corresp	ond	ence address below		
N.	NAME STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.										
Attorneys at Law											
_	DDRESS										
CITY Washington STATE			DC			ZIP CODI	20005-3934				
_	OUNTRY	United States	TELEPHONE	(20	2) 371-		FAX		(202) 371-2540		
_	AME (Print/Type)	Theodore A. Wood			Reg	istration No.	(Attorney/Agent)	52	2,374		
SI	IGNATURE	Colm n. n	14						September 30, 2003		
	I his collection of infor	mation is required by 37 CFR	1.53(h) The information	ic ron	uired to	obtain or ref	tain a honofit by the	9 011	blic which is to file land by the LISPTO		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Azat LATYPOV et al.

Appl. No.: To Be Assigned

Filed: Herewith

For: Methods and Systems to Compensate

for a Stitching Disturbance of a Printed Pattern in a Maskless

Lithography System Utilizing Overlap

Without an Explicit Attenuation

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1857.2100000

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Theodore A. Wood Attorney for Applicants

Registration No. 52,374

Date: September 30, 2003

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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